

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--------------------------------------------------------------------------|------------------------------|------------------|---------|---------------------|
| S1 | 107 | nanoimprint\$4 and membrane\$2 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/09 07:08 |
| S2 | 14 | nanoimprint\$4 and lift\$4 near3 off near3 resist\$2 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/02 16:38 |
| S3 | 0 | helmut near4 schift | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/02 16:31 |
| S4 | 579 | nanoimprint\$5 schift | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/02 16:31 |
| S5 | 2 | nanoimprint\$5 and schift | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/02 16:31 |
| S6 | 55 | \$6imprint\$4 and lift\$4 near3 off near3 resist\$2 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/02 17:24 |
| S7 | 51 | \$6imprint\$4 and nafion | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/02 17:35 |
| S8 | 6 | ("3013098" "3143440" "4390603" "5599638"). PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/02 17:28 |
| S9 | 102 | emboss\$5 and nafion | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/02 17:36 |
| S10 | 11 | emboss\$5 same nafion | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/02 18:14 |
| S11 | 16 | nanoimprint\$5 with electrode\$2 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/02 18:14 |
| S12 | 4 | ("20030121764" "20040063282" "20040084691" "6432740").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/02 18:33 |
| S13 | 1 | pfsa and \$6imprint\$6 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/09 07:13 |
| S14 | 3 | ("4264676" "4708981" "5514378").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/09 07:11 |

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|-----|-----|----------------------------------------------------------------------------------------------------------------------------|------------------------------|----|-----|---------------------|
| S15 | 6 | pfsa and \$6emboss\$6 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/09 07:22 |
| S16 | 93 | (pfsa perfluorosulfonic adj acid\$2) and (\$6emboss\$6 \$6imprint\$6 stamp\$4) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/09 07:43 |
| S17 | 0 | "NAFION.RTM." | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/09 07:29 |
| S18 | 93 | (pfsa perfluorosulfonic adj acid\$2) and (\$6emboss\$6 \$6imprint\$6 stamp\$4) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/09 07:45 |
| S19 | 1 | (pfsa perfluorosulfonic adj acid\$2) and nanoimprint\$4 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/09 07:45 |
| S20 | 98 | nanoimprint\$4 and (catalyst \$2 catalytic) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/09 07:45 |
| S21 | 4 | ("5436448" "5537372" "5546374" "6101164"). PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/09 07:54 |
| S22 | 167 | nanoimprint\$4 and magnetic and (disk\$2 disc \$2) and \$6layer\$4 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/09 08:08 |
| S23 | 409 | emboss\$4 and (platinum pt) same (cvd chemical adj vapor adj deposition pvd physical adj vapor deposition) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/09 08:12 |
| S24 | 141 | S23 and (catalytic catalyst \$2 fuel adj cell\$2) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/09 08:09 |
| S25 | 95 | emboss\$4 and (platinum pt) same (cvd chemical adj vapor adj deposition pvd physical adj vapor adj deposition) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/09 08:19 |
| S26 | 1 | "20020034672" | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/09 09:18 |
| S27 | 21 | multilayer\$4 with resist and nanoimprint\$4 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/09 09:20 |
| S28 | 70 | (977/887).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/09 09:20 |

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| S29 | 7 | ("20020055010" "5866434" "6146227" "6159742" "6187823" "6283812" "6339281"). PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/09 10:25 |
| S30 | 665 | (multi adj layer\$4 multilayer\$4) with resist and magnetic | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/09 10:29 |
| S31 | 59 | (multi adj layer\$4 multilayer\$4) with resist and magnetic and (\$7imprint\$5 \$7emboss\$5 \$7stamp\$5) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/09 10:26 |
| S32 | 6 | ("5322716" "5793711" "6046448" "6480412" "6605836" "6949732"). PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/09 10:31 |
| S33 | 6 | ("20020158342" "20030001274" "5360748" "5734605" "6034887" "6665258"). PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/09 10:41 |
| S34 | 23 | S30 and hexagon\$4 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/09 10:47 |
| S35 | 52 | S30 and round | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/09 10:47 |
| S36 | 50 | S35 not S34 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/09 10:54 |
| S37 | 52 | "4786564" | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/09 10:55 |
| S38 | 3 | ("20020025408" "6309580" "5956216").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/09 11:52 |
| S39 | 16 | 09/241159 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/10 09:33 |
| S40 | 1187 | richard near3 williams | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/10 09:34 |
| S41 | 3 | richard near3 stanley near3 williams | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/10 10:40 |
| S42 | 6 | emboss\$7 with proton adj exchange | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/10 11:18 |

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|-----|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----|-----|---------------------|
| S43 | 2 | ("5,527,363" "5,460,897"). PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/10 10:43 |
| S44 | 13 | ("4272353" "4476198" "4761349" "4816036" "5234776" "5252410" "5480737" "5501914" "5518829" "5998057" "6087028" "6149810" "6361893").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/10 10:53 |
| S45 | 42 | (emboss\$7 imprint\$6 nanoimprint stamp\$4) with (proton adj exchange membrane adj electrode adj assembly) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/10 11:19 |
| S46 | 9 | ("5338430" "5772905" "6136412" "6190929" "6294450" "6309580" "6365059" "6407443" "6432740").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/10 11:46 |
| S47 | 70 | (977/887).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/10 12:13 |
| S48 | 2 | 10/642371 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/10 12:12 |
| S49 | 3654 | ((977/887) or (264/337,293,119) or (502/101)).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/10 12:16 |
| S50 | 2898 | ((977/887) or (264/337,293) or (502/101)).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/10 12:17 |
| S51 | 2347 | ((977/887) or (264/293) or (502/101)).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/10 12:17 |
| S52 | 1 | "20020012825" | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/10 12:40 |
| S53 | 1 | "20020012825" | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/07/22 16:12 |
| S54 | 357 | "5772905" | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/07/22 16:15 |
| S55 | 0 | emboss with "Fig." with rollers same (film sheet web) | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/07/22 16:17 |

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| S56 | 0 | emboss\$4 with "Fig." same (film sheet web) | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/07/22 16:17 |
| S57 | 0 | emboss\$4 with "Fig." | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/07/22 16:17 |
| S58 | 0 | emboss\$4 same "Fig." | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/07/22 16:17 |
| S59 | 82431 | emboss\$4 | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/07/22 16:17 |
| S60 | 135 | emboss with rollers with (film sheet web) | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/07/22 16:18 |
| S61 | 2 | 10/642371 | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/08/06 06:15 |
| S62 | 1 | "20020012825" | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/08/06 06:22 |
| S63 | 359 | "5772905" | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/08/06 08:15 |
| S64 | 2560 | ((264/293) or (977/887) or (502/101)).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/08/06 08:15 |
| S65 | 1113 | (502/101).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/17 16:13 |
| S66 | 94 | S65 and laser | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/17 16:13 |
| S67 | 2 | 10/642371 | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/17 16:19 |
| S68 | 38 | perfluorosulfonic and heat \$4 with (oxidation oxidiz\$5 reduced) with (catalytic catalyst\$2) | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/17 16:21 |
| S69 | 2 | ("20020012825" "5772905").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/17 16:33 |
| S70 | 30890 | (davis).in. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/17 16:41 |
| S71 | 7 | S70 and (nanoimprint\$4) | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/17 16:41 |

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| S72 | 0 | "NAFION.RTM." | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 05:49 |
| S73 | 229 | (nafion perfluorosulf\$8) same (platinum pt cataly \$6) with bond\$4 | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 05:50 |
| S74 | 1 | "20020012825" | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 05:56 |
| S75 | 397 | (nafion perfluorosulf\$8) same (platinum pt cataly \$6) same bond\$4 | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 06:00 |
| S76 | 28 | (nafion perfluorosulf\$8) same (platinum pt cataly \$6) same bond\$4 with (heat\$4 laser) | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 06:00 |
| S77 | 0 | (nafion perfluorosulf\$8) same (platinum pt cataly \$6) same isostatic | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 06:01 |
| S78 | 60 | exchange near3 membrane \$2 same (platinum pt cataly \$6) same bond\$4 with (heat\$4 laser) | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 06:05 |
| S79 | 5 | exchange near3 membrane \$2 same (cataly\$6) same bond\$4 near3 (oxidiz\$6 reduction) | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 06:10 |
| S80 | 1 | exchange near3 membrane \$2 same (cataly\$6) same bond\$4 near3 (oxidiz\$6) | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 06:16 |
| S81 | 1 | (nafion perfluorosulf\$8 exchange near3 membrane \$2) same (cataly\$6) same bond\$4 near3 (oxidiz\$6) | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 06:16 |
| S83 | 0 | (nafion perfluorosulf\$8 exchange near3 membrane \$2) same (cataly\$6) same laser near3 (mix mixing mixed) | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 06:17 |
| S84 | 42 | (nafion perfluorosulf\$8 exchange near3 membrane \$2) same (cataly\$6) same bond\$4 same (oxidiz\$6) | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 06:18 |
| S85 | 27 | (nafion perfluorosulf\$8 exchange near3 membrane \$2) same (cataly\$6) same laser | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 06:19 |

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| S86 | 15 | (nafion perfluorosulf\$8 exchange near3 membrane \$2) and (cataly\$6) same laser same bond\$4 | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 06:21 |
| S87 | 43 | (cataly\$6) with laser with bond\$4 | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 06:22 |
| S88 | 875 | (cataly\$6) with oxidiz\$6 with bond\$4 | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 06:23 |
| S89 | 2 | 10/642371 | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 06:24 |
| S90 | 734 | (nafion perfluorosulf\$8 exchange near3 membrane \$2) with (cataly\$6) with react\$4 | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 06:25 |
| S91 | 30 | (nafion perfluorosulf\$8 exchange near3 membrane \$2) with (cataly\$6) with react\$4 same bond\$5 | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 06:26 |
| S92 | 17 | (nafion perfluorosulf\$8 exchange near3 membrane \$2) with (cataly\$6) with react\$4 with bond\$5 | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 06:32 |
| S93 | 0 | (nafion perfluorosulf\$8 exchange near3 membrane \$2) with (cataly\$6) with laser with melt\$4 with surface\$2 | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 06:40 |
| S94 | 0 | (nafion perfluorosulf\$8 exchange near3 membrane \$2) same (cataly\$6) with laser with melt\$4 with surface\$2 | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 06:41 |
| S95 | 0 | (nafion perfluorosulf\$8 exchange near3 membrane \$2) same (cataly\$6) same laser with melt\$4 with surface\$2 | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 06:41 |
| S96 | 2 | (nafion perfluorosulf\$8 exchange near3 membrane \$2) with laser with melt\$4 with surface\$2 | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 06:41 |

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| S97 | 11 | ("20020012825" "4936956" "5338430" "5772905" "6136412" "6190929" "6294450" "6309580" "6365059" "6407443" "6432740"). PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 06:42 |
| S98 | 1 | "5825550" | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 06:45 |
| S99 | 2678 | ((264/293) or (977/887) or (502/101)).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 07:29 |
| S100 | 435 | "5772905" | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 09:08 |
| S101 | 1 | "20020012825" | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 09:11 |
| S102 | 2 | 10/642371 | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 09:12 |
| S103 | 3 | "6943117" | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 09:28 |
| S104 | 468 | (29/623.4).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 10:21 |
| S105 | 1581 | ((29/623.4) or (502/101)). CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/28 10:21 |

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